

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1802	crack preventing	US-PGPUB; USPAT	NEAR	ON	2007/05/25 12:50
S2	69	GaN with S1	US-PGPUB; USPAT	NEAR	ON	2007/05/25 13:15
S3	38	AlGaN with S1	US-PGPUB; USPAT	NEAR	ON	2007/05/25 13:15
S4	3	S3 not S2	US-PGPUB; USPAT	NEAR	ON	2007/05/25 13:15
S5	0	("2006/0081860").URPN.	USPAT	NEAR	ON	2007/05/25 13:46
S6	12	crack preventative	USPAT	NEAR	ON	2007/05/25 14:07
S7	93	LED and S1	USPAT	NEAR	ON	2007/05/25 14:07
S8	81	S7 not S2 not S3 not S4 not S6	USPAT	NEAR	ON	2007/05/25 14:43
S9	11	"1265228"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/25 14:18
S10	0	"98807519"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/25 14:43
S11	3836	gan near5 buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/25 14:43
S12	22	S1 with S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/25 14:46
S13	0	S12 not S2 not S3 not S4 not S6 not S7	USPAT	NEAR	ON	2007/05/25 14:47
S14	9874	(257/79-103).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/05/25 14:47

## EAST Search History

S15	76	S1 and S14	US-PGPUB; USPAT	NEAR	ON	2007/05/25 14:47
S16	4	S15 not S2 not S3 not S4 not S6 not S7 not "22"	USPAT	NEAR	ON	2007/05/25 14:48
S17	12	S15 not S2 not S3 not S4 not S6 not S7	USPAT	NEAR	ON	2007/05/25 16:41
S18	6	"290057"	USPAT	NEAR	ON	2007/05/25 16:34
S19	17	"290057"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/25 16:36
S20	2665	n+ contact	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/25 16:36
S21	250	n+ contact layer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/25 16:36
S22	3	S14 and S21	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/25 16:39
S23	471	257/101.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/25 16:39
S24	2486	257/103.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/25 16:39
S25	717	S23 or S24 and crack	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/25 16:39
S26	297	(S23 or S24) and crack	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/25 16:40

## EAST Search History

S27	266	S26 and GaN	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/25 16:40
S28	104647	contact layer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/25 16:40
S29	183	S27 and S28	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/25 16:40
S30	99	(S23 or S24) and (crack near3 prevent\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/25 16:41
S31	91	S30 and GaN	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/25 16:41
S32	80	S31 and contact layer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/25 16:41
S33	33	S32 not S15 not S2 not S3 not S4 not S6 not S7	USPAT	NEAR	ON	2007/05/25 17:33
S34	1	("20040155250").PN.	US-PGPUB; USPAT	OR	OFF	2007/05/25 16:46
S35	3	"US 20040155250"	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON	2007/05/25 17:01
S36	2	"US 20030006409"	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON	2007/05/25 17:06
S37	4	high impurity contact layer	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON	2007/05/25 17:09

## EAST Search History

S38	723	(contact layer) near10 ((high or greater) near10 (impurity or dopant))	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON	2007/05/25 17:32
S39	96	dop\$3 near10 (crack prevent\$4)	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON	2007/05/25 17:54
S40	76	S39 and GaN	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON	2007/05/25 17:33
S41	8	S40 not S32 not S15 not S2 not S3 not S4 not S6 not S7	USPAT	NEAR	ON	2007/05/26 14:00
S42	24	undop\$3 near10 (crack prevent\$4)	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON	2007/05/25 17:54
S43	0	S42 not S40 not S32 not S15 not S2 not S3 not S4 not S6 not S7	USPAT	NEAR	ON	2007/05/25 17:54
S44	2	"US 20030010993"	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON	2007/05/25 18:24
S45	2714	clad near10 advantage	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON	2007/05/25 18:24
S46	23	(n near5 clad) near10 advantage	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON	2007/05/25 18:46
S47	1	("5903017").PN.	US-PGPUB; USPAT	OR	OFF	2007/05/25 18:46
S48	887	(GaN near3 substrate) with (LED or (light emitting diode))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/26 13:29
S49	0	ay<="2002"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/26 13:29

## EAST Search History

S50	0	ay@<="2002"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/26 13:29
S51	23589853	@ay@<="2002"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/26 13:30
S52	321	S51 and S48	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/26 14:00
S53	756	anti-crack\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/26 14:00
S54	67	Gan and S53	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/26 14:00
S55	1802	crack preventing	US-PGPUB; USPAT	NEAR	ON	2007/05/26 14:00
S56	69	GaN with S55	US-PGPUB; USPAT	NEAR	ON	2007/05/26 14:00
S57	38	AlGaN with S55	US-PGPUB; USPAT	NEAR	ON	2007/05/26 14:00
S58	3	S57 not S56	US-PGPUB; USPAT	NEAR	ON	2007/05/26 14:00
S59	12	crack preventative	USPAT	NEAR	ON	2007/05/26 14:00
S60	93	LED and S55	USPAT	NEAR	ON	2007/05/26 14:00
S61	9874	(257/79-103).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/05/26 14:00
S62	76	S55 and S61	US-PGPUB; USPAT	NEAR	ON	2007/05/26 14:00
S63	471	257/101.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/26 14:00

## EAST Search History

S64	2486	257/103.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/26 14:00
S65	99	(S63 or S64) and (crack near3 prevent\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/26 14:00
S66	91	S65 and GaN	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/26 14:00
S67	80	S66 and contact layer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/26 14:00
S68	96	dop\$3 near10 (crack prevent\$4)	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON	2007/05/26 14:00
S69	76	S68 and GaN	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON	2007/05/26 14:00
S70	29	S54 not S69 not S67 not S62 not S56 not S57 not S58 not S59 not S60	USPAT	NEAR	ON	2007/05/26 14:01
S71	471	257/101.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/26 14:07
S72	104647	contact layer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/26 14:07
S73	187	S71 and S72	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/26 14:07
S74	1	("6172382").PN.	US-PGPUB; USPAT	OR	OFF	2007/05/26 14:36

## EAST Search History

S75	15	(US-20070040240-\$ or US-20060220042-\$ or US-20060081860-\$ or US-20040238810-\$ or US-20040183063-\$ or US-20070002239-\$ or US-20030136957-\$ or US-20050224834-\$).did. or (US-6764871-\$ or US-6835956-\$ or US-6815726-\$ or US-6388275-\$ or US-7176479-\$ or US-6150674-\$ or US-5903017-\$).did.	US-PGPUB; USPAT	NEAR	ON	2007/05/26 15:17
S76	14	S75 and GaN	US-PGPUB; USPAT	NEAR	ON	2007/05/26 15:17
S77	2	"5315136"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/26 17:37
S78	14	"6466135"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/26 17:37